Application No. 09/629,993 Filing Date: August 1, 2000 Reply to Notice to File Corrected Application Papers Docket No. N81347/RLW Replacement Sheet 1 of 31

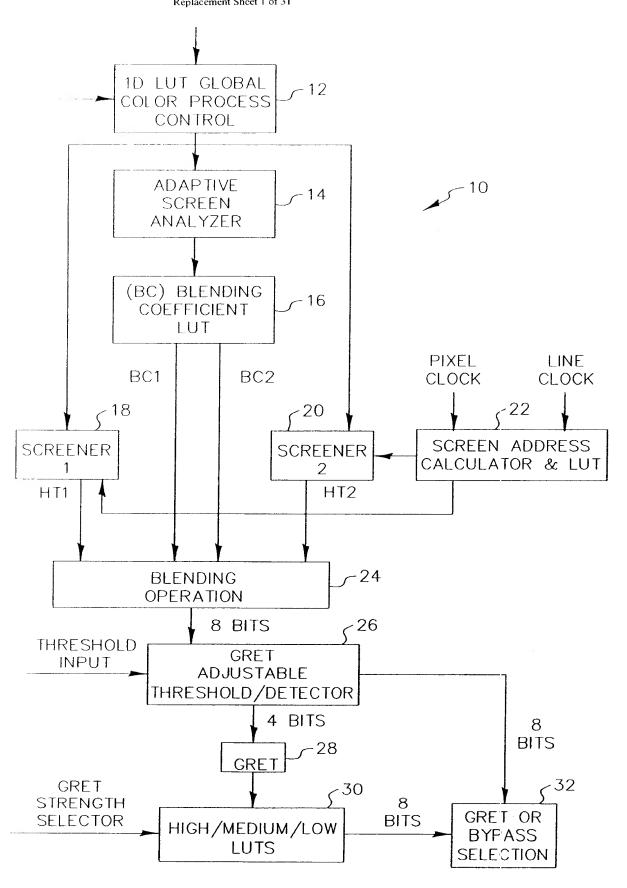


FIG. 1

Application No. 09/629,993 Filing Date: August 1, 2000 Reply to Notice to File Corrected Application Papers Docket No. N81347/RLW Replacement Sheet 2 of 31

PREVIOUS LINE A C

CURRENT LINE X X=CURRENT
PIXEL

FOLLOWING LINE D B

CONTRAST INDEX = MAX (IA-BI,IC-DI)

FIG. 2

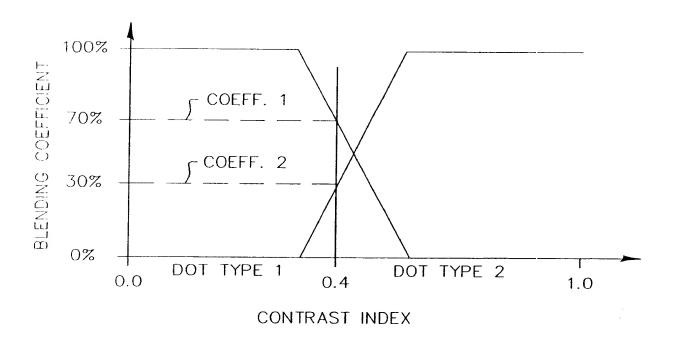
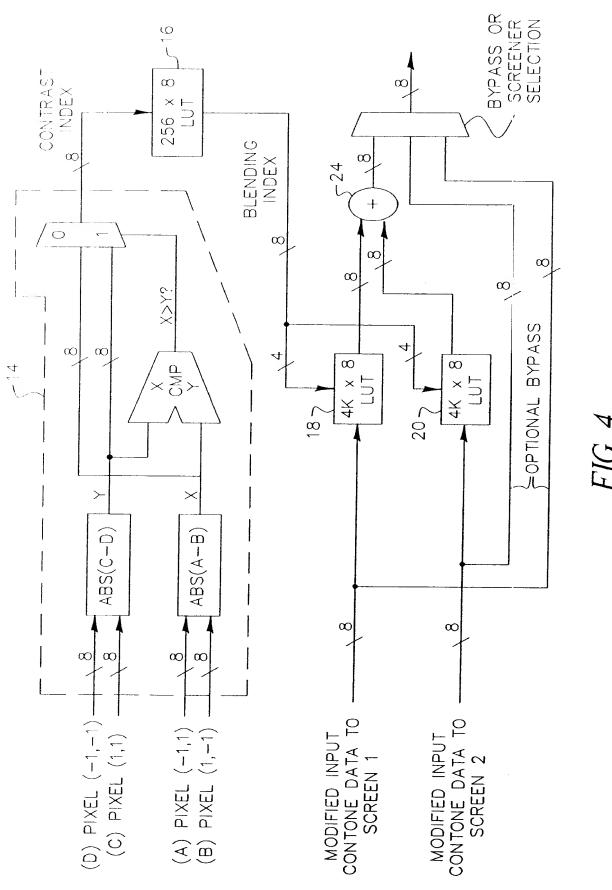


FIG. 3

Application No. 09/629,993 Filing Date: August 1, 2000 Reply to Notice to File Corrected Application Papers
Docket No. N81347/RLW Replacement Sheet 3 of 31



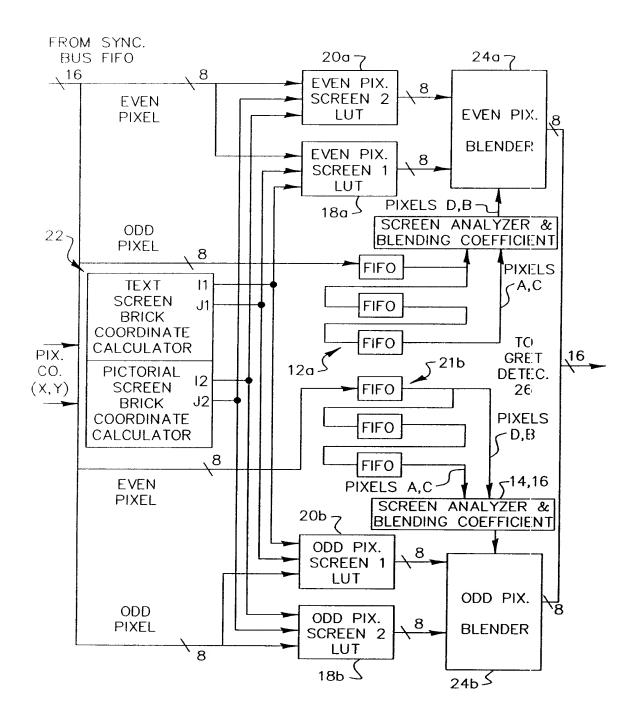


FIG. 5

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	<u></u>	
	ω	00000000000000000000000000000000000000
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	3	000000000000000000000000000000000000000
	~	000000000000000000000000000000000000000
Ŋ	<b>Y</b>	000000000000000000000000000000000000000
E=25	0	00000000000000000
PLAN		0-040400V∞0011011400V∞

FIG. 6a

		1
	<del>←</del>	000000000000000000000000000000000000000
	17	000000000000000000000000000000000000000
	<del>-</del>	182 200 200 200 200 200 200 200 200 200 2
	بر س	187 187 32 32 32 228 228 228 228 155 163 0 0
	4	248 241 168 182 27 27 27 27 27 152 163 163 00 00
	<u></u>	919 166 166 177 177 178 177 178 178 178 178
	2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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	ω	0 0 0 1 182 2533 2243 154 116 0 0 116 134 134 134 134 134 134 134 134 134 134
	ιΩ	0 0 0 163 163 163 172 172 173 182 182 174 174 174 174 174 174 175 176 176 176 176 176 176 176 176 176 176
	4	0 0 0 0 132 262 262 262 262 263 263 263 263 263 2
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=128	0	0000000000000000
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FIG. 6b

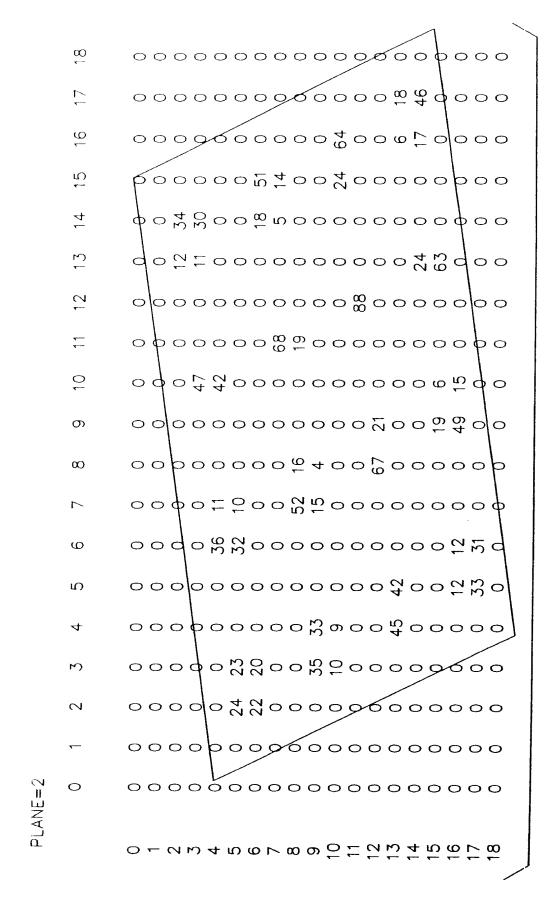


FIG. 6c

Application No. 09/629,993 Filing Date: August 1, 2000 Reply to Notice to File Corrected Application Papers Docket No. N81347/RLW Replacement Sheet 8 of 31

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0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
255 255 255 255 255 255 255 255 255 255
255 255 255 255 255 255 255 255 255 255
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222222222222222222222222222222222222222
255 255 255 255 255 255 255 255 255 255 255 255 255 255 255 255
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255 255 255 255 255 255 255 255 255 255
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00000000000000000000000000000000000000
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2222555

PLANE=255

255 255 255 255

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255 255 255 255

255 255

255 255

PLANE=128

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000070000000000000000000000000000000000
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0000000000
-00000-008
-000040001-
0004000-0
00700000
000000000
0007000
004 800 000 000 000 000
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
000000000
0-00000-0
-000000000
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200-20000
00000000
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000040000
000000000000000000000000000000000000000
00000000
00%000004

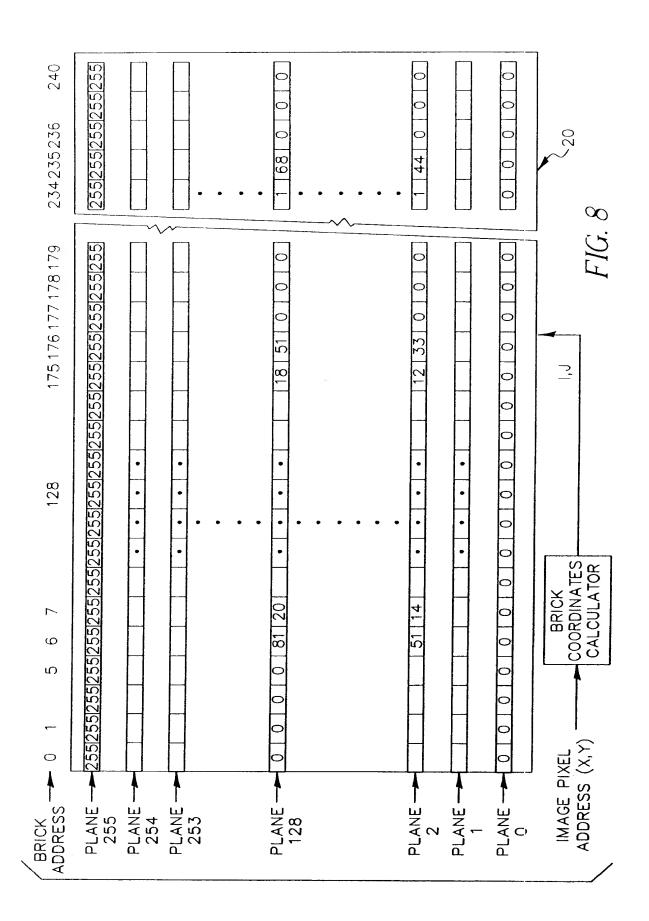
FIG. 7b

Application No. 09/629,993 Filing Date: August 1, 2000 Reply to Notice to File Corrected Application Papers Docket No. N81347/RLW Replacement Sheet 9 of 31

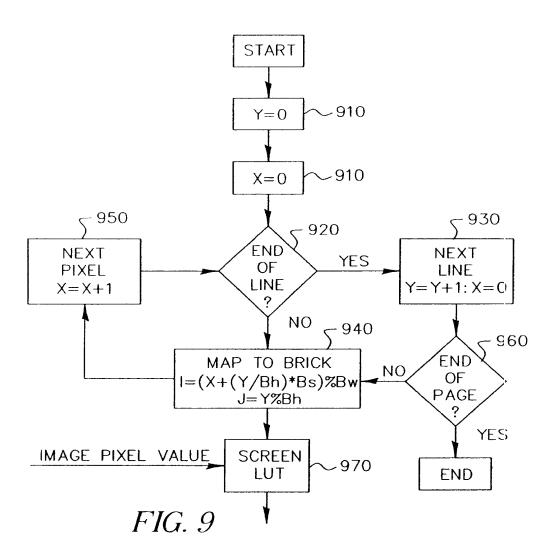
М	0	0	0	0	0	0	16	
0	0	•	0	0	0	62	0	
0	20	0	0	0	49	7	0	0
$\frac{1}{\infty}$	23	0	0	=	9	0	0	0
65	0	0	0	12	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	20	0	0	0
-	0	0	0	46	-	0	0	44
-	0	0	32	<u>6</u>	0	0	7	<b>-</b>
0	0	ഗ	36	0	0	0	₹	0
0	0	<del>0</del>	0	0	0	0	0	თ
0	0	0	0	0	0	0	0	33
0	0	0	15	0	0	6	)‰	0
0	0	30	Θ	0	0	33 (	n	0
0	5	34	0	0	7	12	0	0
0	52	0	0	0	7	0	0	0
23	0	0	0	0	0	0	•	0
·	0	0	0	0	0	4	0	0
0	9	0	0	0	9	•	0	0
4	<del>-</del>	0	0	22	23	0	0	0
5	0	0	-	24	0	0	0	0
0	0	0	7	0	0	0	0	0
0	0	0	0	0	7	0	0	0
0	0	0	0	3	0	0	0	65
0	0	0	39	12	0	0	17	7
0	0	9	44	0	0	0	တ	0
0	0	35	0	0	0	0	0	4

FIG. 7c

Application No. 09/629,993 Filing Date: August 1, 2000 Reply to Notice to File Corrected Application Papers Docket No. N81347/RLW Replacement Sheet 10 of 31



Application No. 09/629,993 Filing Date: August 1, 2000 Reply to Notice to File Corrected Application Papers Docket No. N81347/RLW Replacement Sheet 11 of 31

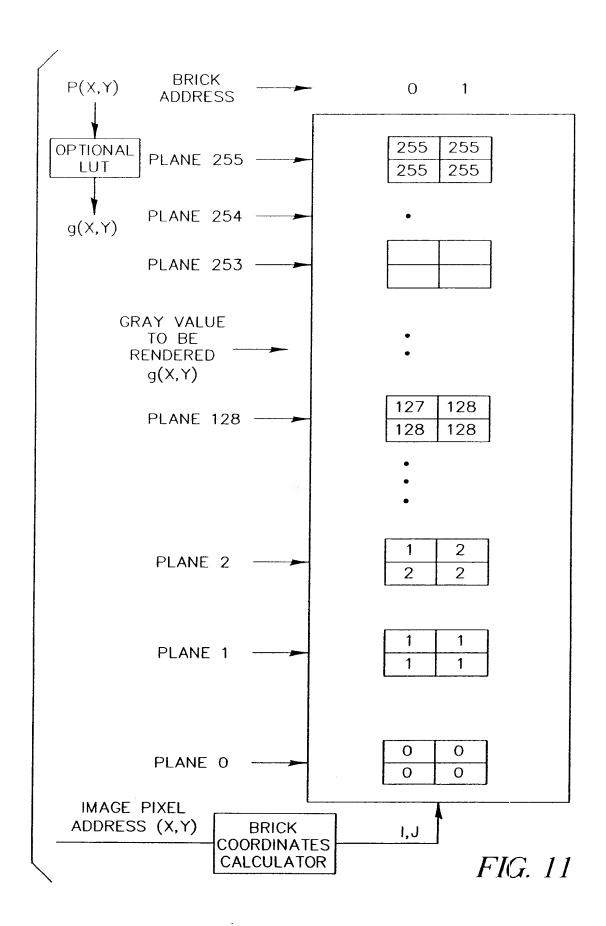


PLANE 255	255	255
FLANE 200	255	255
PLANE 128	127	128
PLANE 120	128	128
PLANE 2	1	2
TLAINE Z	2	2

FIG. 10

Application No. 09/629,993 Filing Date: August 1, 2000 Reply to Notice to File Corrected

Application Papers Docket No. N81347/RLW Replacement Sheet 12 of 31



Application No. 09/629,993 Filing Date: August 1, 2000 Reply to Notice to File Corrected Application Papers Docket No. N81347/RLW Replacement Sheet 13 of 31

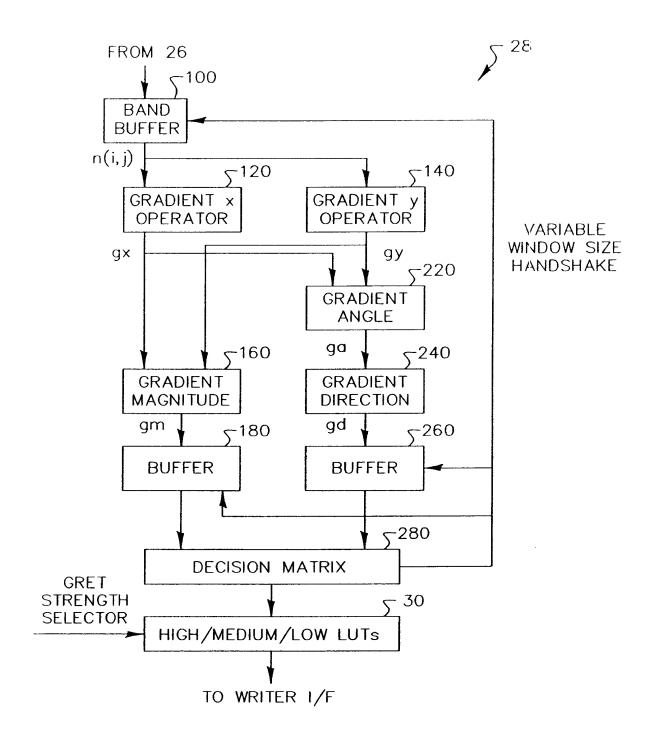
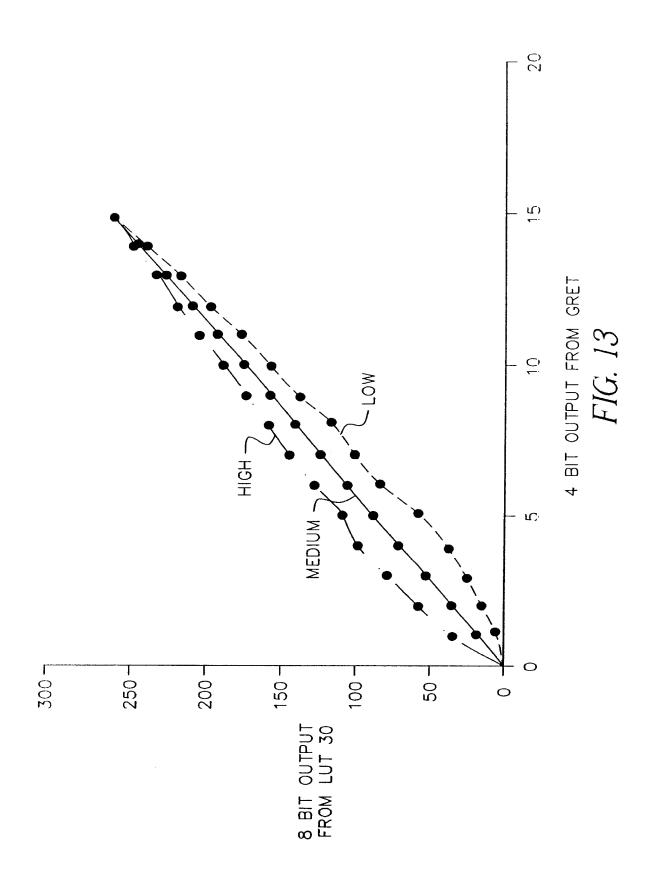


FIG. 12

Application No. 09/629,993 Filing Date: August 1, 2000 Reply to Notice to File Corrected Application Papers Docket No. N81347/RLW Replacement Sheet 14 of 31



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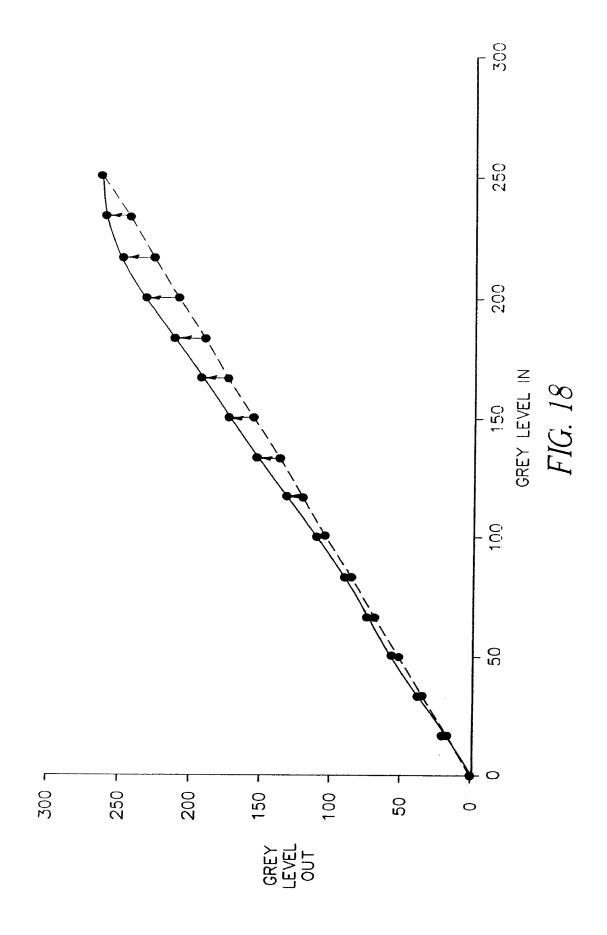
Application No. 09/629,993 Filing Date: August 1, 2000 Reply to Notice to File Corrected

**Application Papers** Docket No. N81347/RLW Replacement Sheet 15 of 31

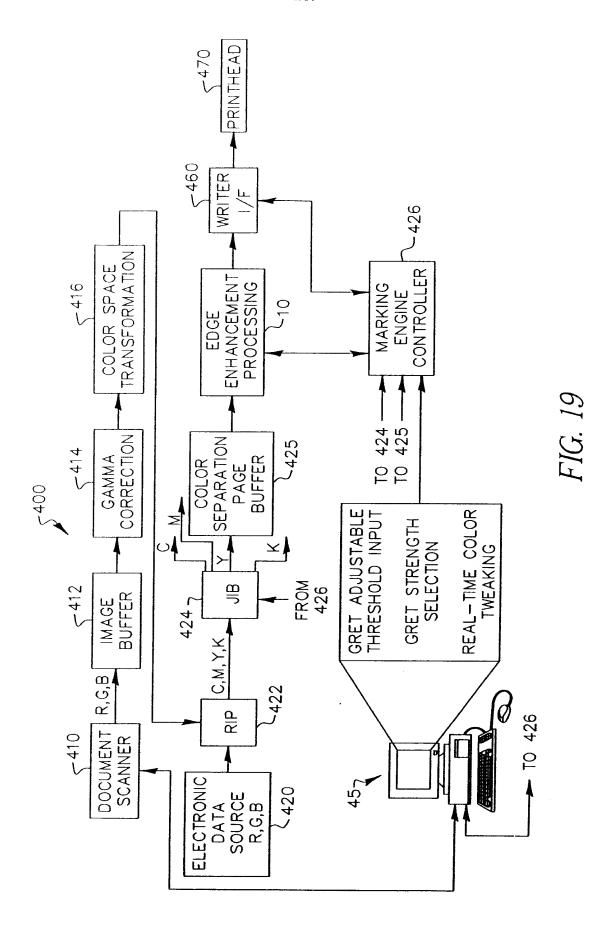
0000000000 

 $\frac{2}{2}$ 

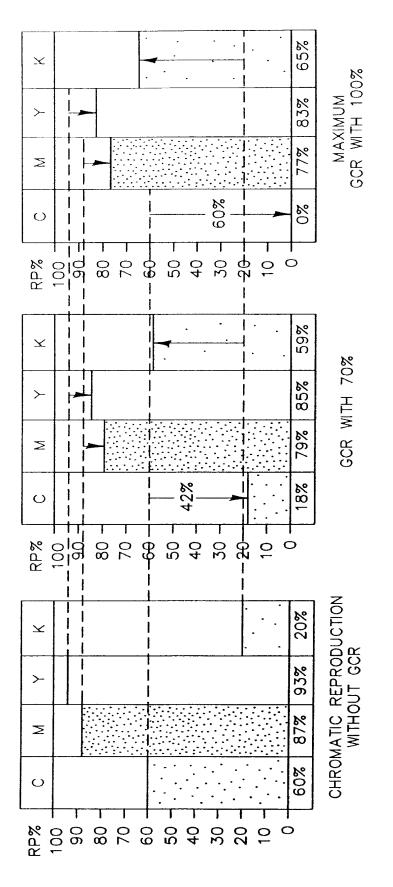
Application No. 09/629,993 Filing Date: August 1, 2000 Reply to Notice to File Corrected Application Papers Docket No. N81347/RLW Replacement Sheet 19 of 31



Application No. 09/629,993 Filing Date: August 1, 2000 Reply to Notice to File Corrected Application Papers Docket No. N81347/RLW Replacement Sheet 20 of 31



Application No. 09/629,993 Filing Date: August 1, 2000 Reply to Notice to File Corrected Application Papers Docket No. N81347/RLW Replacement Sheet 21 of 31



DOMINANT COLORS: Y, M=RED COMPLEMENTARY COLOR=CYAN

FIG. 20a

Application No. 09/629,993 Filing Date: August 1, 2000 Reply to Notice to File Corrected Application Papers Docket No. N81347/RLW Replacement Sheet 22 of 31

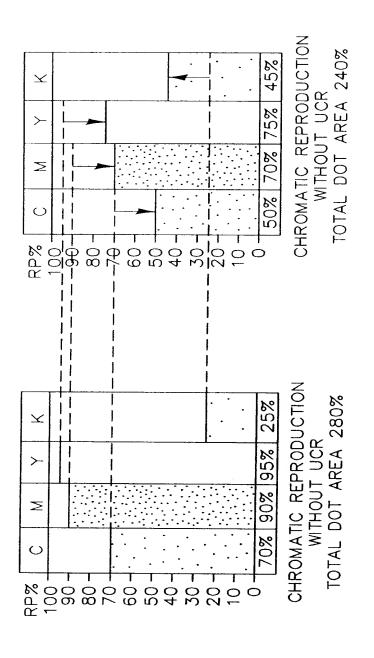


FIG. 20b

Application No. 09/629,993 Filing Date: August 1, 2000 Reply to Notice to File Corrected Application Papers Docket No. N81347/RLW Replacement Sheet 23 of 31

STEP 1

TILE STRUCTURE

X	Х	Х	Х	Х	Х	Х
X	Х	Х	C1	Х	Х	Х
X	Χ	C1	C1	C1	Х	Х
X	C1	C1	C1	C1	C1	Χ
X	C1	C1	C1	C1	C1	Х
X	Х	C1	C1	C1	Х	Χ
X	Χ	Χ	C1	Χ	Χ	Χ
X	Χ	X	Χ	Χ	Χ	Х

FIG. 21-1

STEP 2

LABEL PIXEL SEQUENCE IN THE TILE

0	0	0	0	0	0	0
0	0	0	1	0	0	0
0	0	2	3	4	0	0
0	5	6	7	8	9	0
0	10	11	12	13	14	0
0	0	15	16	17	0	0
0	0	0	18	0	0	0
0	0	0	0	0	0	0

FIG. 21-2

FILL UP IMAGE PLANE WITH TILE

3

STEP

		,		т	,		· · · · · ·			,				<b>,</b>		
-	2	7	12	16	18		М	7	12	16	<del>2</del>	-	3	7	12	16
14	2	9	=	15	တ	14	2	9	1	15	თ	14	2	9	11	15
13	17	5	10	4	∞	13	17	5	10	4	$\infty$	13	17	5	10	4
12	16	18	_	2	7	12	16	18	-	3	7	12	16	18		3
=	15	တ	14	2	9	1	15	6	14	2	9	=	15	6	14	2
10	4	∞	13	17	9	10	4	∞	13	17	5	10	4	∞	13	17
-	3	7	12	16	18	1	3	7	12	16	18	-	3	7	12	16
14	2	9	11	15	6	14	2	9	Ξ	15	6	14	2	9	11	15
13	17	5	10	4	∞	13	17	5	10	4	8	13	17	5	10	4
12	16	18	1	3	7	12	16	18	1	3	7	12	16	18	1	3
-	15	ნ	14	2	9	11	15	ნ	14	2	9	11	15	တ	14	2
10	4	∞	13	17	2	10	4	ω	13	17	2	10	4	∞	13	17
-	3	7	12	16	18		3	7	12	16	18	-	ы	7	12	16

FIG. 21-3

Application No. 09/629,993 Filing Date: August 1, 2000 Reply to Notice to File Corrected Application Papers Docket No. N81347/RLW Replacement Sheet 25 of 31

## STEP 4 FOUND REPEATING RECTANGLE BLOCKS IN THE IMAGE PLANE

1	10	11	12	13	14	1	10	11	12	13	14	1
3	4	15	16	17	2	3	4	15	16	17	2	3
7	8	9	18	5	6	7	8	9	18	5	6	7
12	13	14	1	10	11	12	13	14	1	10	11	12
16	17	2	3	4	15	16	17	2	3	4	15	16
18	5	6	7	8	9	18	5	6	7	8	9	18
1	10	11	12	13	14	1	10	11	12	13	14	1
3	4	15	16	17	2	3	4	15	16	17	2	3
7	8	9	18	5	6	7	8	9	18	5	6	7
12	13	14	1	10	11	12	13	14	1	10	11	12
16	17	2	3	4	15	16	17	2	3	4	15	16
18	5	6	7	8	9	18	5	6	7	8	9	18
1	10	11	12	13	14	1	10	11	12	13	14	1
3	4	15	16	17	2	3	4	15	16	17	2	3
7	8	9	18	5	6	7	8	9	18	5	6	7
12	13	14	1 3	10	11	12	13	14	1	10	11	12
16	17	2		4	15	16	17	2	3_	<u>4</u> _	15	16

FIG. 21-4

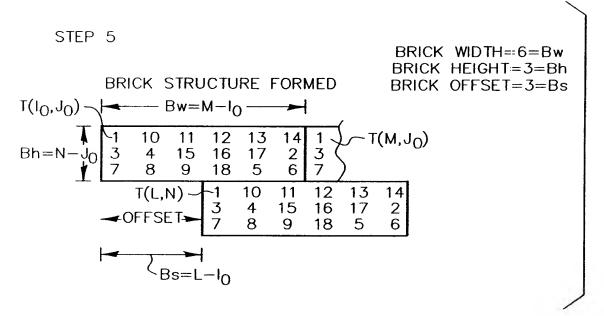


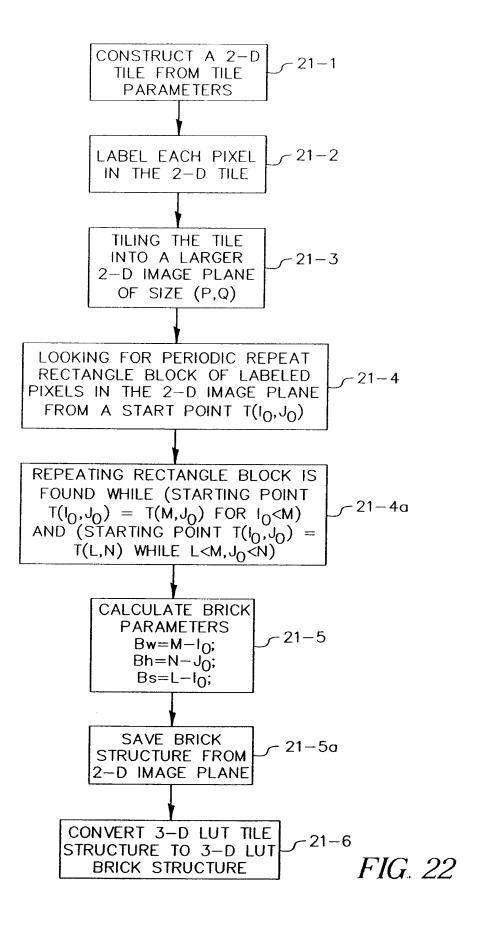
FIG. 21-5

Application No. 09/629,993 Filing Date: August 1, 2000 Reply to Notice to File Corrected Application Papers Docket No. N81347/RLW Replacement Sheet 26 of 31

STEP 6						
LEVEL O			ILE ST 3-D			
: LEVEL 2	106 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
LEVEL 128	255 255 220	231 231 99	0 0 99	0 0 220	0 0 100	231 231 100
				• • •		
LEVEL 255	255 255 255	255 255 255	255 255 255	255 255 255	255 255 255	255 255 255

FIG. 21-6

Application No. 09/629,993 Filing Date: August 1, 2000 Reply to Notice to File Corrected Application Papers Docket No. N81347/RLW Replacement Sheet 27 of 31



Application No. 09/629,993 Filing Date: August 1, 2000 Reply to Notice to File Corrected Application Papers Docket No. N81347/RLW

Replacement Sheet 28 of 31

TILE STRUCTURE

C1	C1	C1	C1	C2	C2	C2
C1	C1	C1	C1	C2	C2	C2
C1	C1	C1	C1	C2	C2	C2
С3	С3	СЗ	C4	C2	C2	C2
С3	С3	С3	C4	C4	C4	C4
С3	C3	С3	C4	C4	C4	C4
С3	С3	С3	C4	C4	C4	C4

BRICK STRUCTURE

				/
S1	E1	S1	E1	
S2 S3	E2	S2	E2	\
S3	E3	S3	E3	\
S4	E4	S4	E4	,
S5	E5	S5	E5	
S5 S6	E6	S6	E6	(
S7	E7	S7	E7	
S1	E1	S1	E1	
S2	E2	S2	E2	
S3	E3	S3	E3	
S4	E4	S4	E4	
S2 S3 S4 S5 S6	E5	S5	E5	\
S6	E6	S6	E6	1
S7	E7	S7	E7	)

FIG. 23a

Application No. 09/629,993 Filing Date: August 1, 2000 Reply to Notice to File Corrected Application Papers Docket No. N81347/RLW Replacement Sheet 29 of 31

GRAY LEVEL = 2

0	0	0	0	0	0	0
0	31	18	0	7	42	0
0	15	8	0	3	20	0
0	0	0	0	0	0	0
0	8	5	0	2	11	0
0	38	21	0	8	51	0
0	0	0	0	0	0	0

BRICK STRUCTURE

0	Ο	O	0	0	0	
31	18	O	7	42	0	
15	8	0	3	20	0	
0	0	0	0	0	0	
8	5	0	2	11	0	
38	21	0	8	51	0	
0	0	0	0	0	0	
	15 0 8	15 8 0 0 8 5	15 8 0 0 0 0 8 5 0	15 8 0 3 0 0 0 0 8 5 0 2	15     8     0     3     20       0     0     0     0     0       8     5     0     2     11	15     8     0     3     20     0       0     0     0     0     0     0       8     5     0     2     11     0

Application No. 09/629,993
Filing Date: August 1, 2000
Reply to Notice to File Corrected
Application Papers
Docket No. N81347/RLW

Replacement Sheet 30 of 31

## GRAY LEVEL = 128

20	164	83	5	83	164	20
164	255	229	132	223	255	164
83	229	163	51	159	233	83
5	132	51	0	51	132	5
83	223	159	51	158	224	83
164	255	233	132	224	255	164
20	164	83	5	83	164	20

## BRICK STRUCTURE

20	164	83	5	83	164	20
164	255	229	132	223	255	164
83	229	163	51	159	233	83
5	132	51	0	51	132	5
83	223	159	51	158	224	83
164	255	233	132	224	255	164
20	164	83	5	83	164	20

FIG. 23c

Application No. 09/629,993 Filing Date: August 1, 2000 Reply to Notice to File Corrected Application Papers Docket No. N81347/RLW Replacement Sheet 31 of 31

